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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,979	01/29/2004	David O. Caplan	MIT-092DV	4392
51414 GOODWIN PR	7590 08/22/2007 ROCTER LLP	EXAMINER		
	MINISTRATOR	LEUNG, CHRISTINA Y		
EXCHANGE PLACE BOSTON, MA 02109-2881			ART UNIT	PAPER NUMBER
boston, MA	X 02109-2001		2613	
			MAIL DATE	DELIVERY MODE
			08/22/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/766,979	CAPLAN ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Christina Y. Leung	2613			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE is not so time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication, or period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)🖂	Responsive to communication(s) filed on 29 Ja	nuary 2004.	•			
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims		•			
5)□ 6)⊠ 7)□	Claim(s) 31 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 31 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or					
Applicati	on Papers	Λ.				
10)⊠	The specification is objected to by the Examiner The drawing(s) filed on 29 January 2004 is/are: Applicant may not request that any objection to the Capplacement drawing sheet(s) including the correction The oath or declaration is objected to by the Example 1.	a) \square accepted or b) \square objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prioric application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	t(s)	·				
	e of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da				
3) 🔯 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>29 January 2004</u> .	5) Notice of Informal P				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 31 is rejected under 35 U.S.C. 102(b) as being anticipated by **Duling, III et al.** (US 5,303,314 A).

Regarding **claim 31**, Duling, III et al. disclose an optical filter that generates double pass Fabry-Perot transmission characteristics (Figure 7; column 5, lines 53-68; column 6, lines 1-61), the filter comprising:

- a) a single-polarization fiber isolator 70 that generates a polarized optical signal beam having a single polarization;
- b) a polarization beam splitter 12 in optical communication with the polarization fiber isolator, the polarization beam splitter passing the polarized optical signal beam through one port (i.e., port 12c);
- c) a Fabry-Perot filter 80 in optical communication with the polarized optical signal beam; and
- d) a Faraday mirror (i.e., retro-reflecting orthogonal polarization converter 30; column 4, lines 19-54) in optical communication with the Fabry-Perot filter, the Faraday mirror 30 modifying the polarization of the signal beam and reflecting the signal beam back to the Fabry-Perot filter 80 and the polarization beam splitter 12, wherein the beam splitter directs the signal

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beam having the modified polarization through a second port (i.e., port 12b), thereby generating the double pass Fabry-Perot transfer function.

Duling III, et al. specifically disclose that element 30, labeled "retro-reflecting orthogonal polarization converter" in Figure 7, may be implemented as a Faraday mirror (column 4, lines 19-54).

Examiner notes that Duling, III et al. also specifically disclose that light travels through isolator 70, polarization beam splitter 12, Fabry-Perot filter 80, and Faraday mirror 30, then back through Fabry-Perot filter 80 and polarization beam splitter 12, in that order as recited by claim 31 (see Duling, III et al., column 5, lines 53-68; column 6, lines 1-61, particularly column 6, lines 26-41).

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christina Y. Leung whose telephone number is 571-272-3023. The examiner can normally be reached on Monday to Friday, 7:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan, can be reached on 571-272-3022. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2600.

Information regarding the status of an application may be obtained from the Patent

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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CHRISTINA LEUNG
PRIMARY EXAMINER